



## Testing, Maintenance & Operation of Electrical Substations

Date	Venues	(\$)Fees	Book your seat
15 Dec -19 Dec 2024	Cairo	2900	<a href="#">Register Now</a>

### Course Overview

This course is aimed at introducing the power-substation layout and design to utility and industrial engineers. The course will cover substation layout, design, grounding and protection. The course will be supported by practical design examples.

### Course Objective

To improve the skills of engineers involved in design, operation and maintenance of electric power substation. A degree in electrical engineering is recommended to gain maximum benefit from the course

### Who Should Attend?

Engineers involved in design, operation and maintenance of power substations. A degree in electrical engineering is recommended to gain maximum benefit.

### Course Outline

- **Introduction**
- **Power Systems**

#### -Substations of Voltages 230 kV and Above

#### -Substation Busbars

- **Substations of Voltages up to 220 kV**

#### -Transformer, Reactors and Regulators Transformers

#### -Reactors

#### -Regulators

#### -Outgoing and Incoming Overhead Lines

#### -Tower Selection

- **Substation Grounding**

#### -Zones of Protection

**-Circuit Breakers**

**-Reclosers, Sectionalizers and Fuses**

- **Lightning Protection**

Training Methodology

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Games & Role plays



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